

In the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

- 1           1.   (Previously Presented) A self-contained, portable music  
2   player comprising:
  - 3           a rechargeable battery pack for powering the music player;
  - 4           an input/output device including at least a keypad for  
5   receiving user inputs and a display;
  - 6           a memory capable of storing digital music in at least one  
7   compressed digital format;
  - 8           a data processor connected to said input/output device and  
9   said memory, said data processor programmed to decompress said  
10   digital music into uncompressed digital music samples;
  - 11          an audio coder-decoder connected to said data processor for  
12   receiving said uncompressed digital music samples from said data  
13   processor and converting said uncompressed digital music samples  
14   into analog music;
  - 15          a headset connector connected to said audio coder-decoder for  
16   supplying said analog music to an external headset earphone; and  
17          a base connector including
    - 18               a power connection connected to said rechargeable battery  
19               pack capable of receiving charging power from an external base  
20               unit,
    - 21               an analog output connection connected to said audio  
22               coder-decoder for supplying said analog music to an external  
23               base unit for amplification and reproduction via speakers, and  
24               an analog input connection connected to said audio coder-  
25               decoder for receiving an analog input from an external base  
26               unit;
- 27   wherein the self-contained, portable music player operates in

28 a portable mode disconnected from a base unit and powered  
29 by said rechargeable battery pack, wherein a user may listen  
30 to selected digital music stored in said memory via an  
31 external headset earphone, and

32 in a base mode connected to a base unit via said base  
33 connector and powered via said power connector, wherein a user  
34 may listen to selected digital music stored in said memory via  
35 speakers of an external base unit and wherein a user may  
36 listen to music received on said analog input connection of  
37 said base connector.

1 2. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3 said data processor is further programmed in cooperation with  
4 input/output device said whereby a user may enter volume control  
5 data via said keypad; and

6 said base connector further includes a volume data connection  
7 for transmission of volume control data from the self-contained,  
8 portable music player to an external base unit.

1 3. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3 said base connector further includes a set of digital  
4 connections connected to said data processor and said audio coder-  
5 decoder for bi-directional transmission of digital data with an  
6 external base unit.

1 4. (Original) The self-contained, portable music player of  
2 claim 1, further comprising:

3 an infrared transmission interface connected to said data  
4 processor for bi-directional transmission of digital data with an  
5 external base unit.

1        5. (Original) The self-contained, portable music player of  
2 claim 1, further comprising:  
3        a microphone;  
4        a pre-amplifier having an input connected to said microphone  
5 and an output connected to said audio coder-decoder;  
6        wherein said audio coder-decoder digitizes sound received by  
7 said microphone, said data processor programmed to store said  
8 digitized sounds in said memory.

1        6. (Original) The self-contained, portable music player of  
2 claim 5, wherein:  
3        said data processor is further programmed to compress said  
4 digitized sounds into a compressed digital format and store said  
5 compressed digital format in said memory.

1        7. (Original) The self-contained, portable music player of  
2 claim 5, wherein:  
3        said data processor is further programmed to  
4        recall digitized sounds stored in said memory, and  
5        compress said recalled digitized sounds into a compressed  
6 digital format and store said compressed digital format in  
7 said memory.

1        8. (Previously Presented) The self-contained, portable music  
2 player of claim 1, wherein:  
3        said audio coder-decoder digitizes analog input received via  
4 said analog input connection, said data processor programmed to  
5 store said digitized analog input in said memory.

1        9. (Original) The self-contained, portable music player of  
2 claim 8, wherein:

3        said data processor is further programmed to compress said  
4 digitized analog input into a compressed digital format and store  
5 said compressed digital format in said memory.

1        10. (Original) The self-contained, portable music player of  
2 claim 8, wherein:

3        said data processor is further programmed to  
4            recall digitized analog input stored in said memory, and  
5            compress said recalled digitized analog input into a  
6 compressed digital format and store said compressed digital  
7 format in said memory.

1        11. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3        said memory is a non-volatile memory capable of retaining data  
4 in the absence of electric power.

1        12. (Original) The self-contained, portable music player of  
2 claim 1, wherein:

3        said data processor is a digital signal processor.

1        13. (Previously Presented) A music system comprising:  
2 a self-contained, portable music player including

3            a rechargeable battery pack for powering the music  
4 player,

5            an input/output device including at least a keypad for  
6 receiving user inputs and a display;

7            a memory capable of storing digital music in at least one  
8 compressed digital format,

9            a data processor connected to said input/output device  
10 and said memory, said data processor programmed to decompress  
11 said digital music into uncompressed digital music samples,

12 an audio coder-decoder connected to said data processor  
13 for receiving said uncompressed digital music samples from  
14 said data processor and converting said uncompressed digital  
15 music samples into analog music,

16 a headset connector connected to said audio coder-decoder  
17 for supplying said analog music to an external headset  
18 earphone, and

19 a first base connector including

20 a first power connection connected to said  
21 rechargeable battery pack capable of receiving charging  
22 power from an external base unit, and

23 a player analog output connection connected to said  
24 audio coder-decoder for supplying said analog music, and

25 an analog input connection connected to said audio  
26 coder-decoder for receiving an analog input; and

27 a base unit including

28 a second base connector including

29 a second power connection for connection to said  
30 first power connection,

31 an analog input connection for connection to said  
32 player analog output connection of said first base  
33 connector,

34 a base unit analog output connection for connection  
35 to said analog input connection of said first base  
36 connector,

37 a power source connected to said second power connection  
38 for supplying recharging power for said rechargeable battery  
39 pack,

40 a pre-amplifier having an input connected to said analog  
41 input connection and an output,

42 a power amplifier having an input connected to said  
43 output of said pre-amplifier and an output,

44 a tuner for receiving and demodulating analog audio  
45 signals, said tuner supplying said analog audio signals to  
46 said base unit analog output connection, and  
47 a speaker system connected to said output of said power  
48 amplifier for reproducing sound corresponding to said output  
49 of said power amplifier,  
50 wherein the music system operates in  
51 a portable mode wherein said self-contained, portable  
52 music player is disconnected from said base unit and powered  
53 by said rechargeable battery pack, wherein a user may listen  
54 to selected digital music stored in said memory via an  
55 external headset earphone, and  
56 in a base mode wherein said self-contained, portable  
57 music player is connected to said base unit via said first  
58 base connector and said second base connector and powered from  
59 said power source, wherein a user may listen to selected  
60 digital music stored in said memory via speakers of an  
61 external base unit and wherein a user may listen to music from  
62 said tuner supplied to said analog input connection of said  
63 first base connector.

1 14. (Original) The music system of claim 13, wherein:  
2 said data processor is further programmed in cooperation with  
3 input/output device said whereby a user may enter volume control  
4 data via said keypad;  
5 said first base connector further includes a volume data  
6 output connection for transmission of volume control data from the  
7 self-contained, portable music player;  
8 said second base connector further includes a volume data  
9 input connection for connection to said volume data output  
10 connection; and

11        said pre-amplifier is further connected to said volume data  
12 input connection and producing an amount of amplification  
13 corresponding thereto.

1        15. (Original) The music system of claim 13, wherein:  
2        said first base connector further includes a set of first  
3 digital connections connected to said data processor and said audio  
4 coder-decoder for bi-directional transmission of digital data with  
5 an external base unit;  
6        said second base connector further includes a set of second  
7 digital connections for connection to said set of first digital  
8 connections; and  
9        said base unit further includes a disc drive connected to said  
10 set of second digital connections of said second base connector  
11 capable of storing and recalling digital data.

1        16. (Original) The music system of claim 13, further  
2 comprising:  
3        an infrared transmission interface connected to said data  
4 processor for bi-directional transmission of digital data with an  
5 external base unit.

1        17. (Original) The music system of claim 1, further  
2 comprising:  
3        a microphone;  
4        a pre-amplifier having an input connected to said microphone  
5 and an output connected to said audio coder-decoder;  
6        wherein said audio coder-decoder digitizes sound received by  
7 said microphone, said data processor programmed to store said  
8 digitized sounds in said memory.

1        18. (Original) The music system of claim 17, wherein:  
2        said data processor is further programmed to compress said  
3        digitized sounds into a compressed digital format and store said  
4        compressed digital format in said memory.

1        19. (Original) The music system of claim 17, wherein:  
2        said data processor is further programmed to  
3        recall digitized sounds stored in said memory, and  
4        compress said recalled digitized sounds into a compressed  
5        digital format and store said compressed digital format in  
6        said memory.

1        20. (Previously Presented) The music system of claim 13,  
2        wherein:  
3        wherein said audio coder-decoder digitizes analog input  
4        received via said player analog input connection, said data  
5        processor programmed to store said digitized analog input in said  
6        memory.

1        21. (Original) The music system of claim 20, wherein:  
2        said data processor is further programmed to compress said  
3        digitized analog input into a compressed digital format and store  
4        said compressed digital format in said memory.

1        22. (Original) The music system of claim 20, wherein:  
2        said data processor is further programmed to  
3        recall digitized analog input stored in said memory, and  
4        compress said recalled digitized analog input into a  
5        compressed digital format and store said compressed digital  
6        format in said memory.



1        23. (Original) The music system of claim 13, wherein:  
2        said memory is a non-volatile memory capable of retaining data  
3        in the absence of electric power.

1        24. (Original) The music system of claim 13, wherein:  
2        said data processor is a digital signal processor.

1        25. (Previously Presented) A base unit for use with a self-  
2        contained, portable music player comprising:  
3        a tuner for receiving and demodulating analog audio signals;  
4        a base connector including  
5            a power connection,  
6            an analog input connection for receiving an analog input,  
7            a base unit analog output connection connected to said  
8        tuner to output demodulated analog audio signals;  
9        a power source connected to said power connection for  
10       supplying recharging power for the self-contained, portable music  
11       player;  
12       a pre-amplifier having an input connected to said analog input  
13       connection and an output,  
14       a power amplifier having an input connected to said output of  
15       said pre-amplifier and an output, and  
16       a speaker system connected to said output of said power  
17       amplifier for reproducing sound corresponding to said output of  
18       said power amplifier.

1        26. (Original) The base unit of claim 25, wherein:  
2        said base connector further includes a volume data input  
3        connection for receiving of volume control data from the self-  
4        contained, portable music player;

5        said pre-amplifier is further connected to said volume data  
6 input connection and producing an amount of amplification  
7 corresponding thereto.

1        27. (Original) The base unit of claim 25, wherein:  
2        said base connector further includes a set of digital  
3 connections for connection to a set of digital connections of the  
4 self-contained, portable music player; and  
5        said base unit further includes a disc drive connected to said  
6 digital connections of said base connector capable of storing and  
7 recalling digital data.

28. (Canceled)

8        29. (Previously Presented) The self-contained, portable music  
9 player of claim 1, wherein:  
10        said base connector further includes a digital data bus  
11 connection for bidirectional data exchange; and  
12        said data processor being further connected to said digital  
13 data bus connection of said base connector for communicating  
14 station selection data corresponding to inputs received from said  
15 input/output device via said digital data bus connection to the  
16 base unit.

1        30. (Previously Presented) The music system of claim 13,  
2 wherein:  
3        said self-contained, portable music player wherein  
4        said first base connector further includes a first  
5 digital data bus connection for bidirectional data exchange  
6 and  
7        said data processor being further connected to said first  
8 digital data bus connection of said base connector for

9 communicating station selection data corresponding to inputs  
10 received from said input/output device via said first digital  
11 data bus connection to the base unit;  
12 said base unit wherein  
13 said second base connector further includes a second  
14 digital data bus connection for connection to said first  
15 digital data bus connection for receiving digital data  
16 including station selection data, and  
17 said tuner being connected to said second digital data  
18 bus connection and further selecting a station corresponding  
19 to said station selection data.

1 31. (Previously Presented) The base unit of claim 25,  
2 wherein:

3 said base connector further includes a digital data bus  
4 connection for receiving digital data including station selection  
5 data; and

6 said tuner being connected to said digital data bus connection  
7 and further selecting a station corresponding to said station  
8 selection data.